CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022

Date:03.06.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample : :Cement (ACC 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : May - 2021

Date of Testing : 01.06.2021 to 03.06.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022

Date :03.06.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No 03, BBMP, Bangalore

Date of Testing :03.06.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	125	12.50	20.10	79.9	75-100
1.18	169	16.90	37.00	63.0	55-90
600 Micron	254	25.40	62.40	37.6	35-59
300 Micron	183	18.30	80.70	19.3	8-30
150 Micron	125	12.50	93.20	6.8	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date :03.06.2021

ob No.: CQCE/BBMP/RS/03/2021-2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore

Date of Testing :03.06.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	225	4.5	4.5	95.5	95-100
10	2875	57.5	62.0	38.0	25-55
4.75	1632	32.6	94.6	5.4	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date :03.06.2021

Job No.: CQCE/BBMP/RS/03/2021-2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test :03.06.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.395	503	598	1.19	20
2	TMT	10	0.618	518	607	1.17	16
3	TMT	12	0.889	527	624	1.18	15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 24.06.2021

Job No CQCE/BBMP/RS/03/2021-2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	: Executive Engineer, Yelahanka Division,BBMP, Bangalore.
Contractor	:	: Sri. R Shivaram, Contractor, Bangalore.
Name of Work	:	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	24.06.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	114.00	1.681	2317.86	1.27	0.921	133.50	20.98	22.66	20.87	26.09
2	90.00	116.00	1.743	2361.92	1.29	0.923	136.70	21.49	23.21	21.42	26.78
3	90.00	119.00	1.814	2396.16	1.32	0.927	139.70	21.96	23.72	21.98	27.48

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 15.06.2021

Job No.: CQCE/BBMP/RS/03/2021-2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division,BBMP, Bangalore.

Agency : Sri. R Shivaram, Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2021	15.06.2021	8.202	350.3	15.57
2	08.06.2021	15.06.2021	8.145	364.4	16.20
3	08.06.2021	15.06.2021	8.069	359.1	15.96

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 15.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Yelahanka Division,BBMP, Bangalore.
Agency	: Sri. R Shivaram, Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2021	15.06.2021	8.202	382.2	16.99
2	08.06.2021	15.06.2021	8.165	373.3	16.59
3	08.06.2021	15.06.2021	8.066	364.1	16.18

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 17.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.06.2021	17.06.2021	8.145	360.3	16.01
2	10.06.2021	17.06.2021	8.065	356.6	15.85
3	10.06.2021	17.06.2021	8.098	349.9	15.55

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 17.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.06.2021	17.06.2021	8.052	352.2	15.65
2	10.06.2021	17.06.2021	8.063	349.9	15.55
3	10.06.2021	17.06.2021	8.021	372.1	16.54

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 17.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.06.2021	17.06.2021	8.202	359.9	16.00
2	10.06.2021	17.06.2021	8.133	367.1	16.32
3	10.06.2021	17.06.2021	8.009	350.6	15.58

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 18.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2021	18.06.2021	8.202	360.5	16.02
2	11.06.2021	18.06.2021	8.136	356.1	15.83
3	11.06.2021	18.06.2021	8.089	382.2	16.99

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 18.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2021	18.06.2021	8.145	356.6	15.85
2	11.06.2021	18.06.2021	8.003	368.1	16.36
3	11.06.2021	18.06.2021	8.092	349.9	15.55

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 18.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2021	18.06.2021	8.202	353.3	15.70
2	11.06.2021	18.06.2021	8.145	364.5	16.20
3	11.06.2021	18.06.2021	8.096	389.1	17.29

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 06.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2021	06.07.2021	8.059	508.2	22.59
2	08.06.2021	06.07.2021	8.082	519.3	23.08
3	08.06.2021	06.07.2021	8.108	498.3	22.15

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CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 09.07.2021

Job No.: CQCE/BBMP/RS/03/2021-2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Sai Nagara 2 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2021	09.07.2021	8.053	520.3	23.12
2	11.06.2021	09.07.2021	8.068	511.8	22.75
3	11.06.2021	09.07.2021	8.081	499.5	22.20

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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